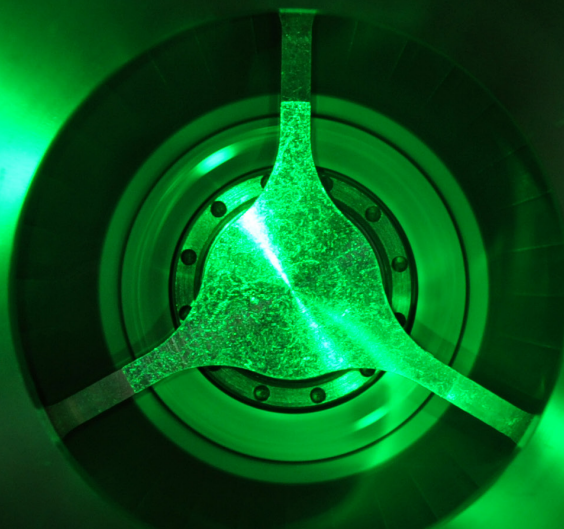


WHAT ENERGIZES YOU?

CENTER FOR ADVANCED ENERGY STUDIES



Close up view of the CAES local electrode atom probe, or LEAP, which uses 3D imaging to investigate materials. The LEAP is just one of the unique capabilities offered at CAES.

WHAT IS CAES?

The Center for Advanced Energy Studies (CAES) is a public/private research center designed to fuel energy transitions and economic growth.

The Center is a consortium of five partners – Idaho National Laboratory, University of Wyoming, Boise State University, Idaho State University, and University of Idaho.

CAES provides a collaborative, multi-mission environment that integrates resources to create new research capabilities and enhance energy-related educational opportunities.

CAES partners can expand the breadth of their research and provide rich, hands-on experiences for students, national laboratory scientists, and industry researchers by sharing laboratories, equipment, and ideas.

Research areas span a range of energy topics including nuclear and materials science, geothermal energy systems, advanced manufacturing, and energy policy.



EXPLORE

Energy and
Environmental
Research



EDUCATE

Energy and
Environmental
Education



ENGAGE

Apply
Knowledge
to Industry



ENABLE

Energy Transitions
and Economic
Development



TAKE A
VIRTUAL TOUR!



Center for Advanced
Energy Studies

The main CAES research facility — located in Idaho Falls near both University of Idaho/Idaho State University's University Place campus and most of INL's in-town facilities — is a 55,000-square-foot LEED® Gold (certified for green features) building that includes eight laboratories with state-of-the-art research equipment and offices for CAES personnel. Ground was broken for the CAES building on February 20, 2007. It was dedicated two years later on February 20, 2009.

The CAES building is owned by the State of Idaho and maintained by Idaho State University. However, all five CAES consortium members have staff, faculty and students who work at the Idaho Falls facility.

Research is also conducted at each of the member institutions, giving CAES scientists and engineers, industry partners, and others access to a wide range of equipment, capabilities, and infrastructure.

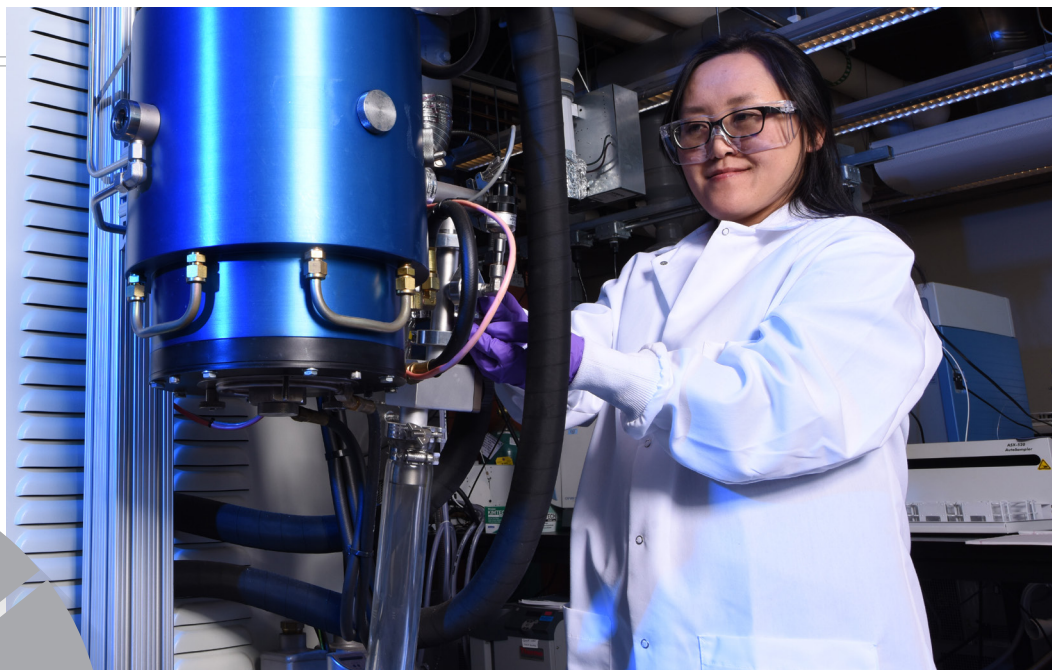
CAES LABS

- Advanced Materials Laboratory
- Radiochemistry Laboratory
- Analytical Chemistry Laboratory
- Analytical Instrumentation Laboratory
- Fluids Laboratory (Geothermal)
- Computer Assisted Virtual Environment (CAVE)
- Microscopy and Characterization Suite (MaCS)
- Advanced Transportation Laboratory

INDUSTRY

CAES engages industry to understand technology challenges and shape research-driven solutions that lead to a commercialization pathway.

The CAES industry affiliate program, while serving national needs, focuses on regional businesses to drive economic growth. The program facilitates industry access to CAES collective R&D capabilities (people, partners, facilities) that can strengthen regional and national industry competitiveness. Industrial partners gain a window into advanced energy studies research programs and core capabilities.



Core capabilities are research focus areas where CAES has talent, expertise, infrastructure and key partnerships.

AFFILIATED CENTERS

CAES has several collaborative centers that serve as implementation partners to focus resources in critical energy areas and partner with CAES researchers and staff:

- Autonomous Systems Center of Excellence (ASCE)
- Nuclear Science User Facilities (NSUF)
- Energy Policy Institute (EPI)
- CAES Energy Efficiency Research Institute (CEERI)
- Center for Space Nuclear Research (CSNR)

FOR MORE INFO

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